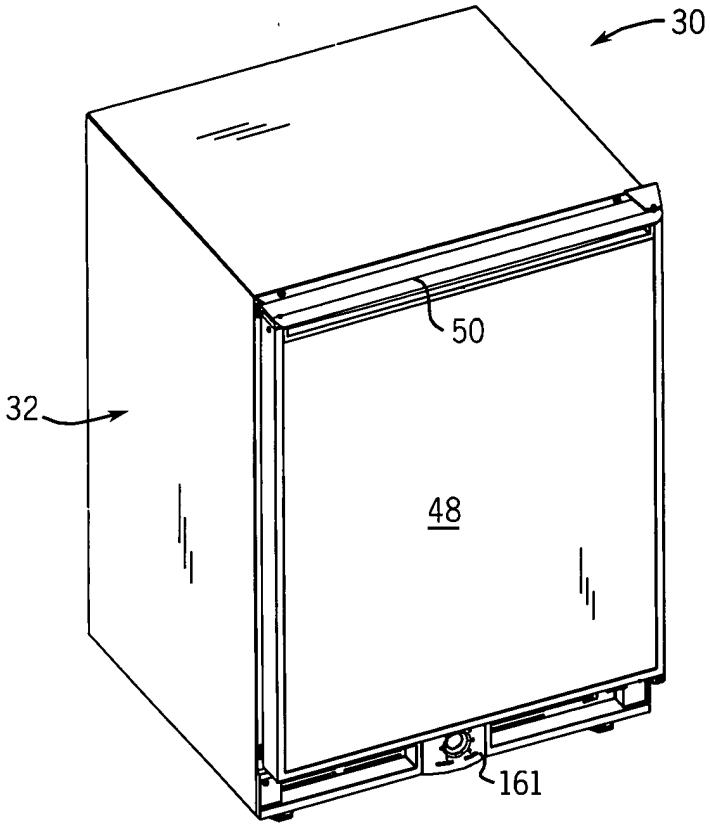


FIG. 1

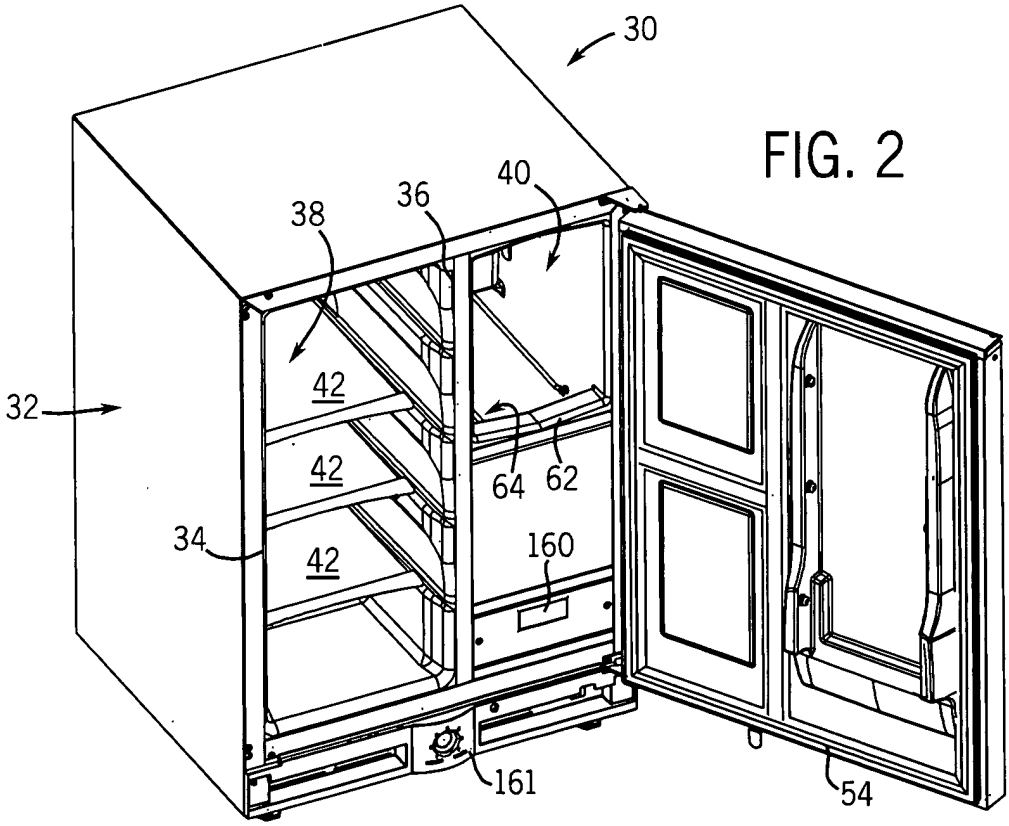
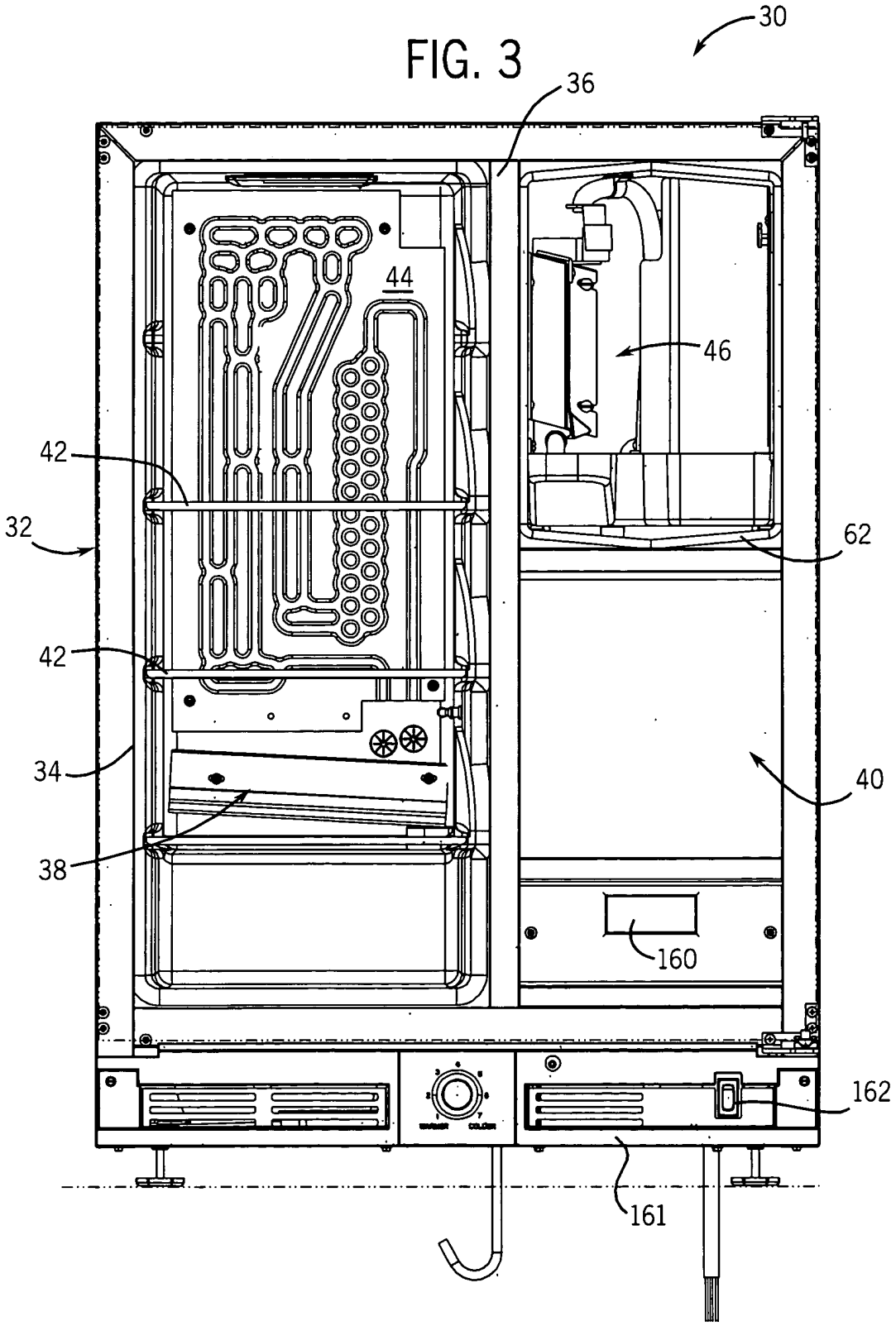
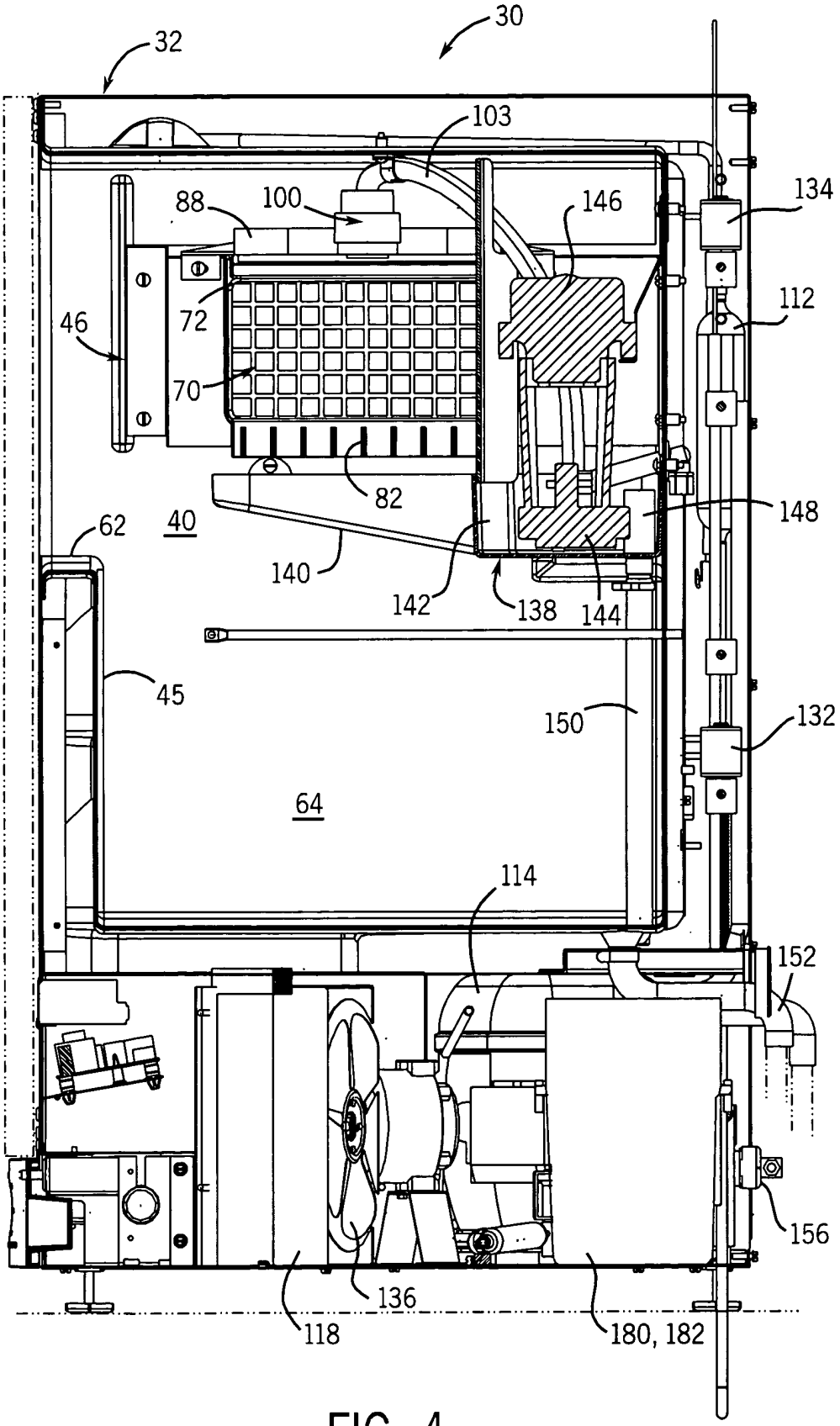


FIG. 2

FIG. 3

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118
180, 182

FIG. 4

FIG. 5A

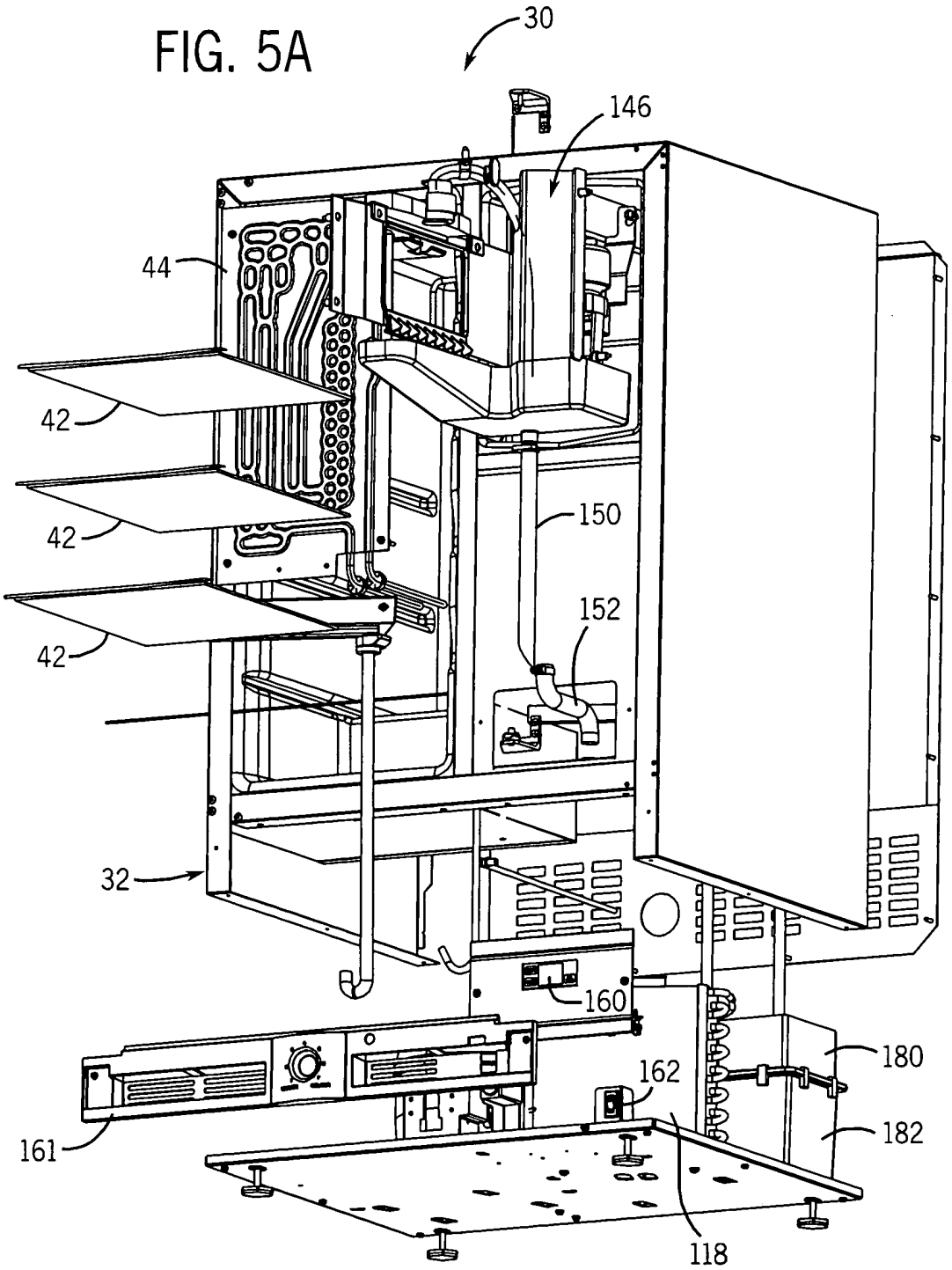
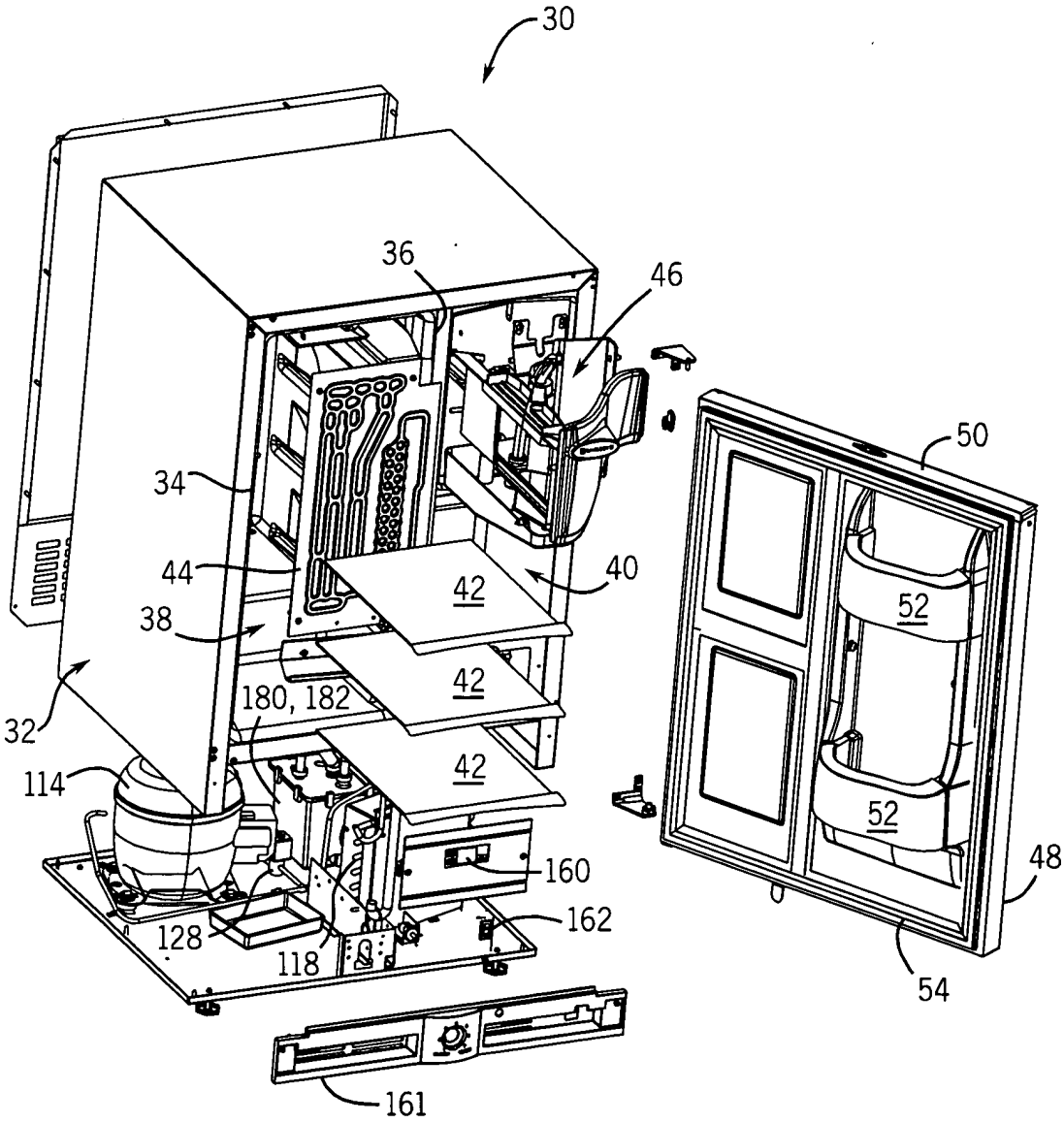


FIG. 5B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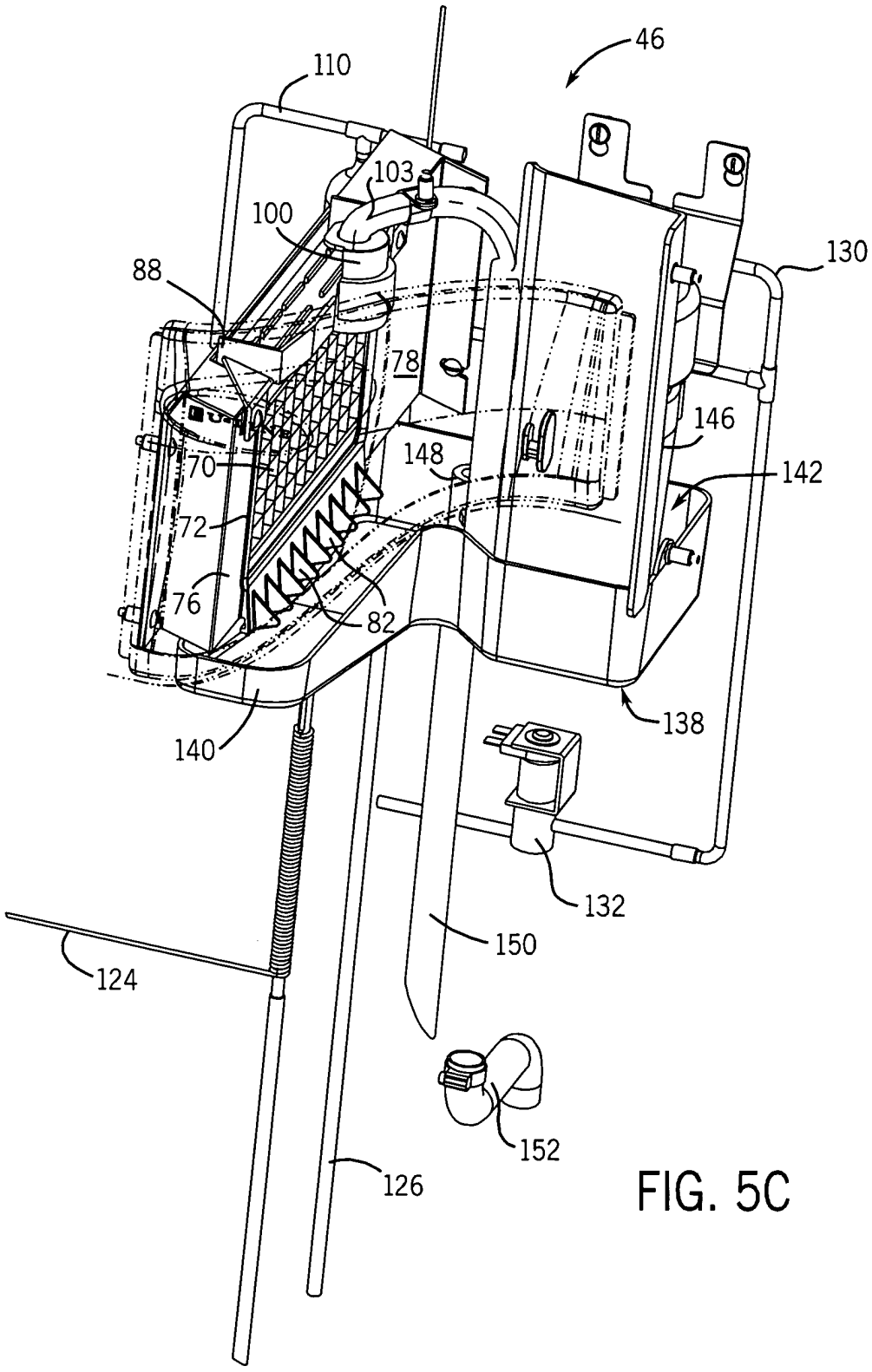
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FIG. 5C

FIG. 5D

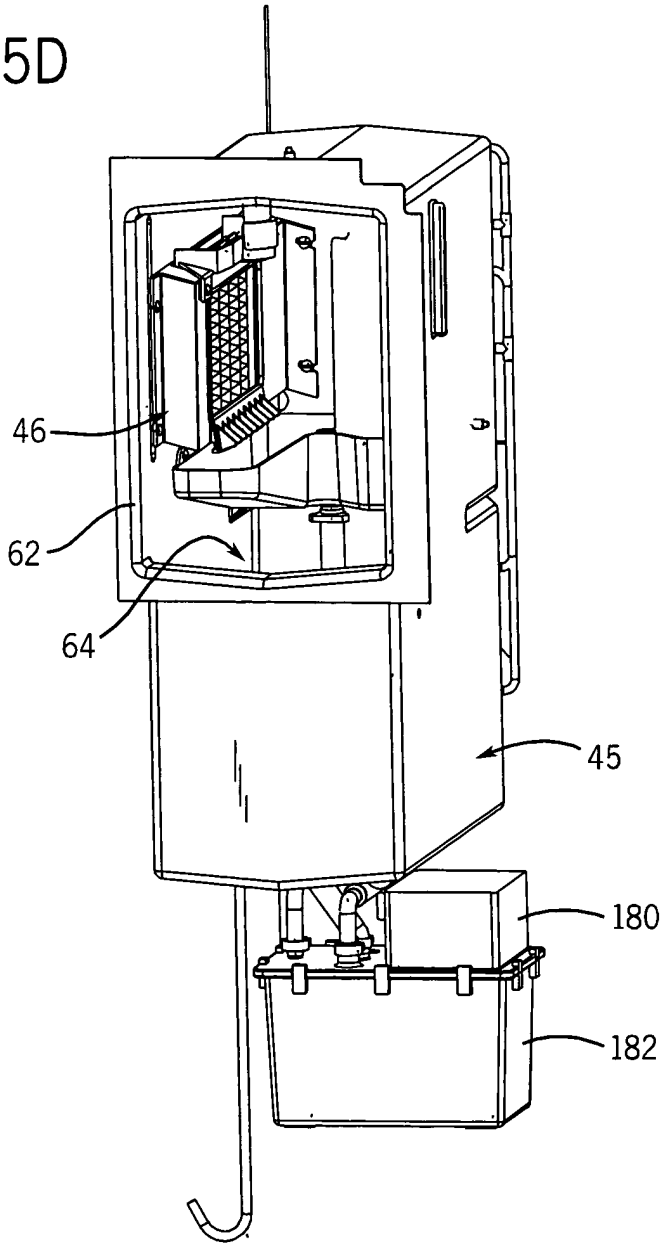
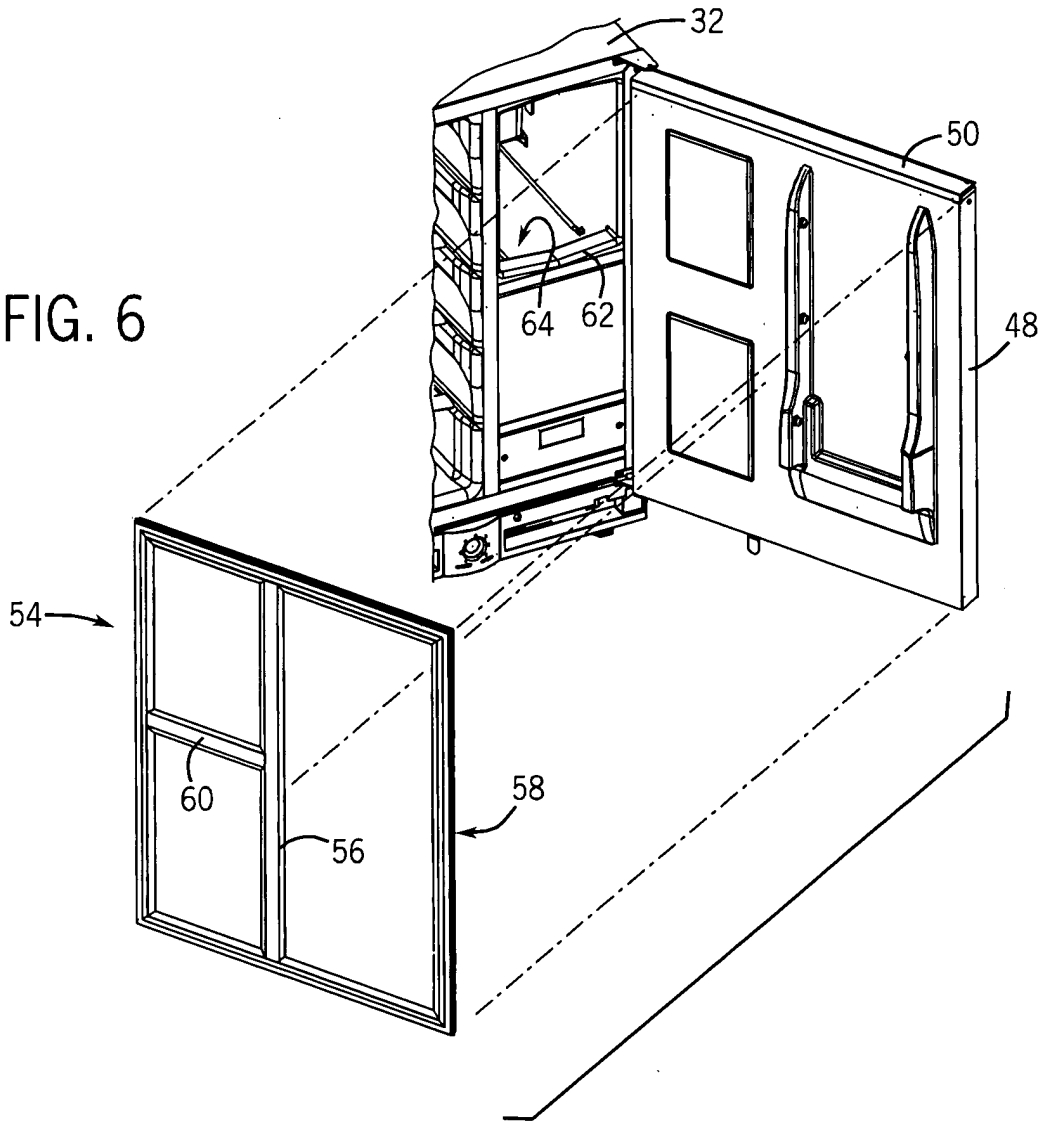


FIG. 6



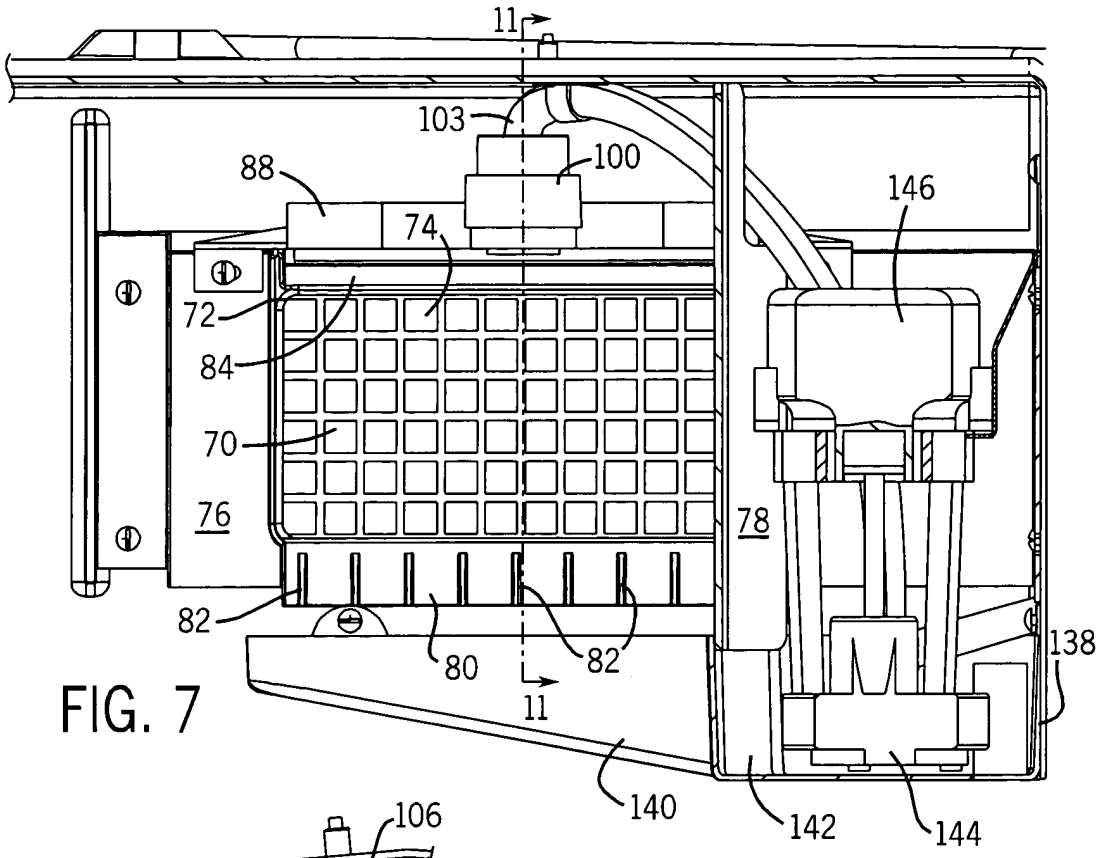


FIG. 7

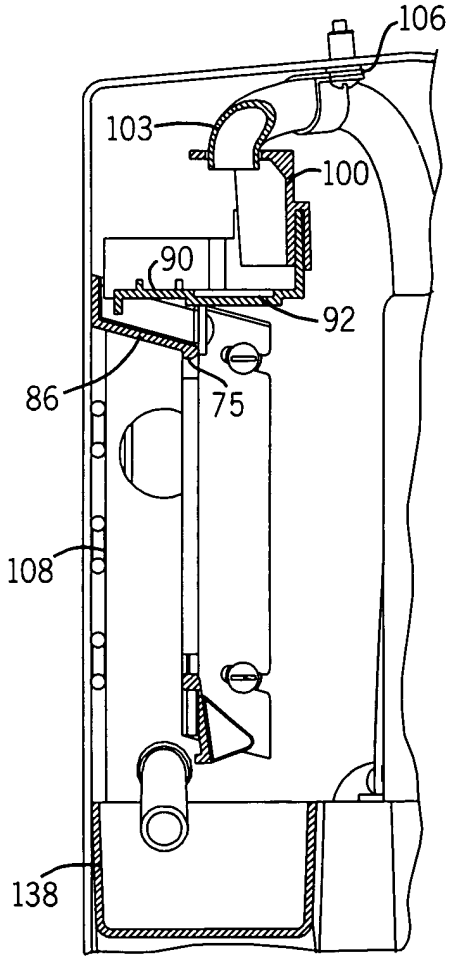


FIG. 11

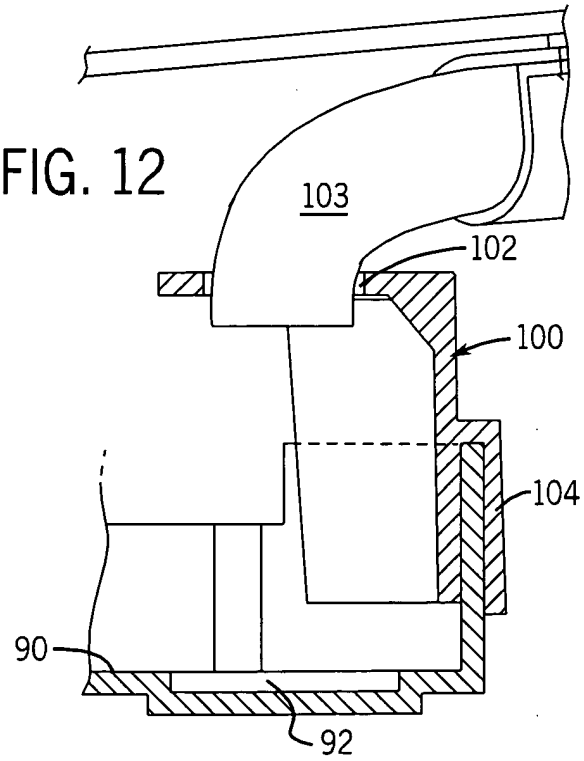


FIG. 12

FIG. 8

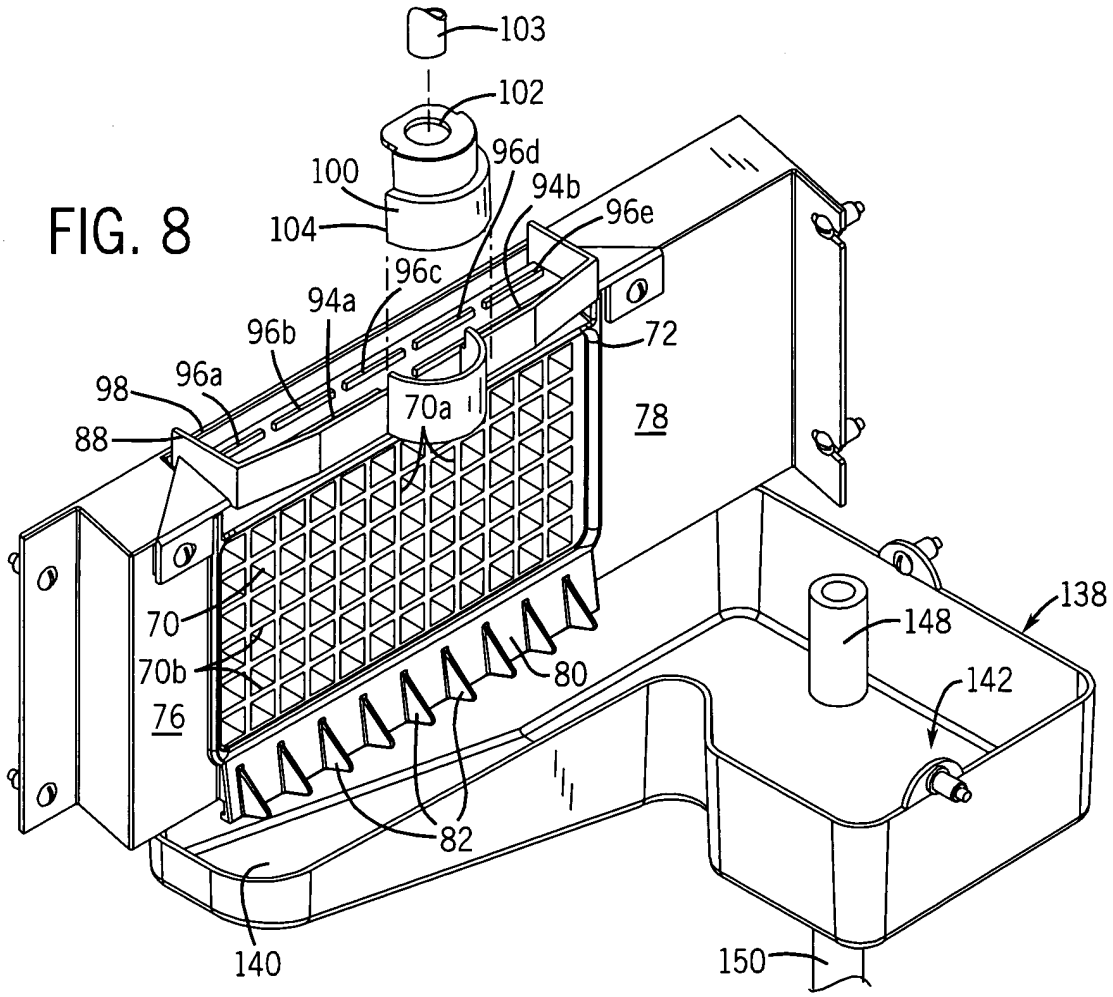


FIG. 9

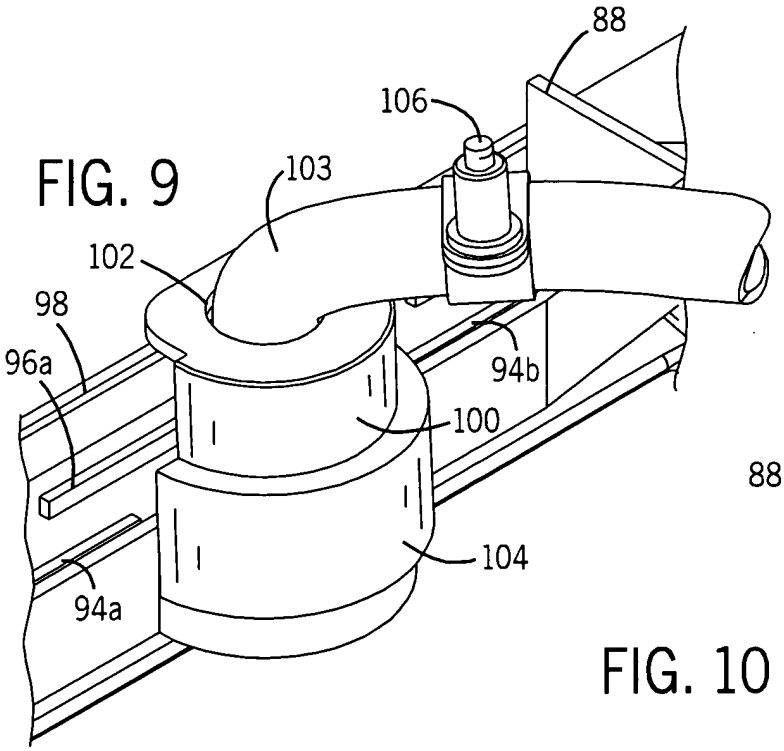
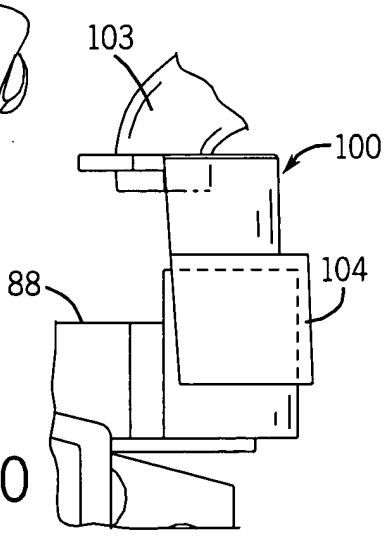
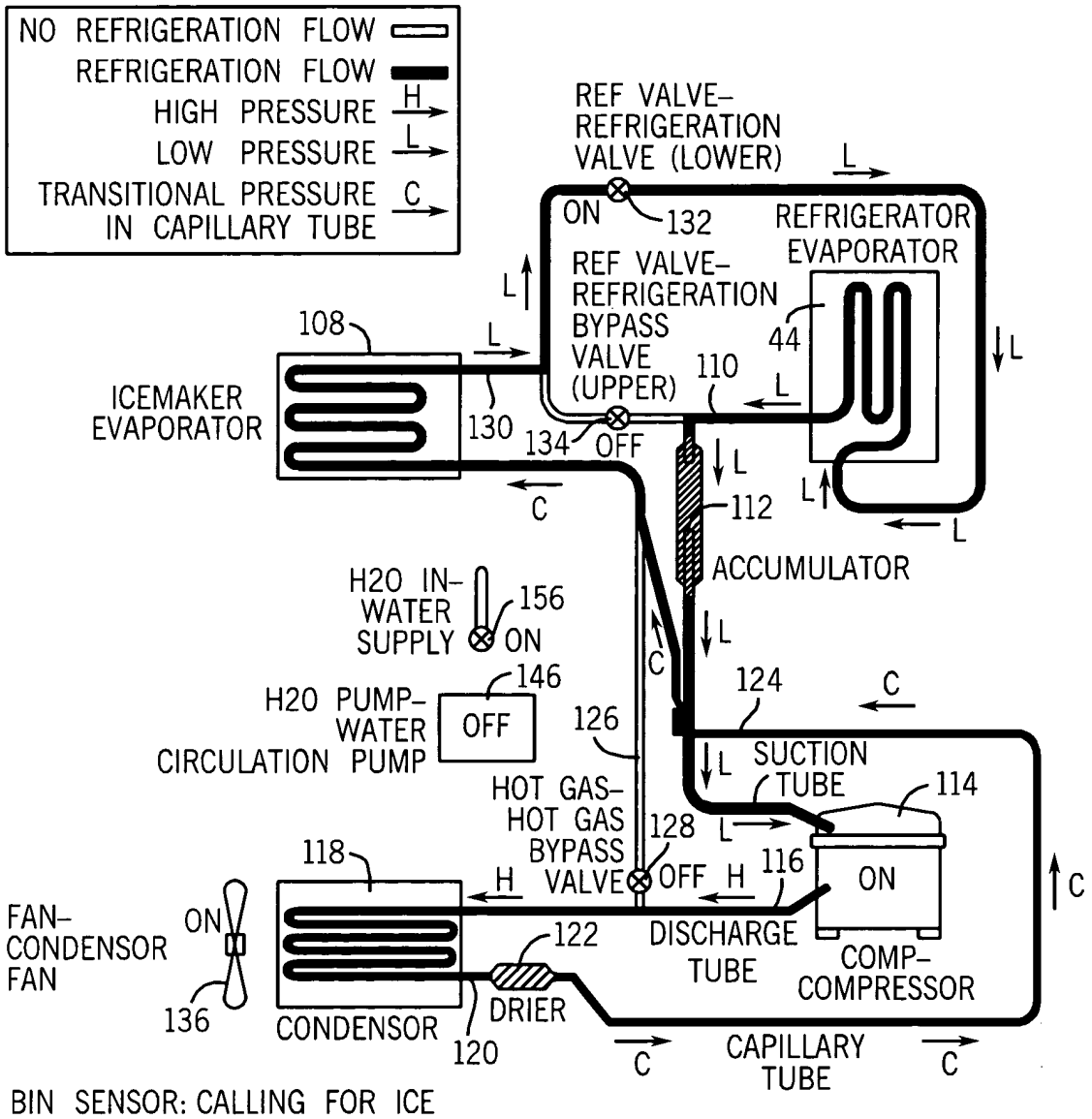


FIG. 10



MODE: WATER FILL WITH REFRIGERATION REQUIRED
(NOTE: NORMAL START-UP WITH A WARM REFRIGERATOR)



BIN SENSOR: CALLING FOR ICE
REFRIGERATOR SENSOR: CALLING FOR COOLING
LIQUID LINE SENSOR: NOT APPLICABLE

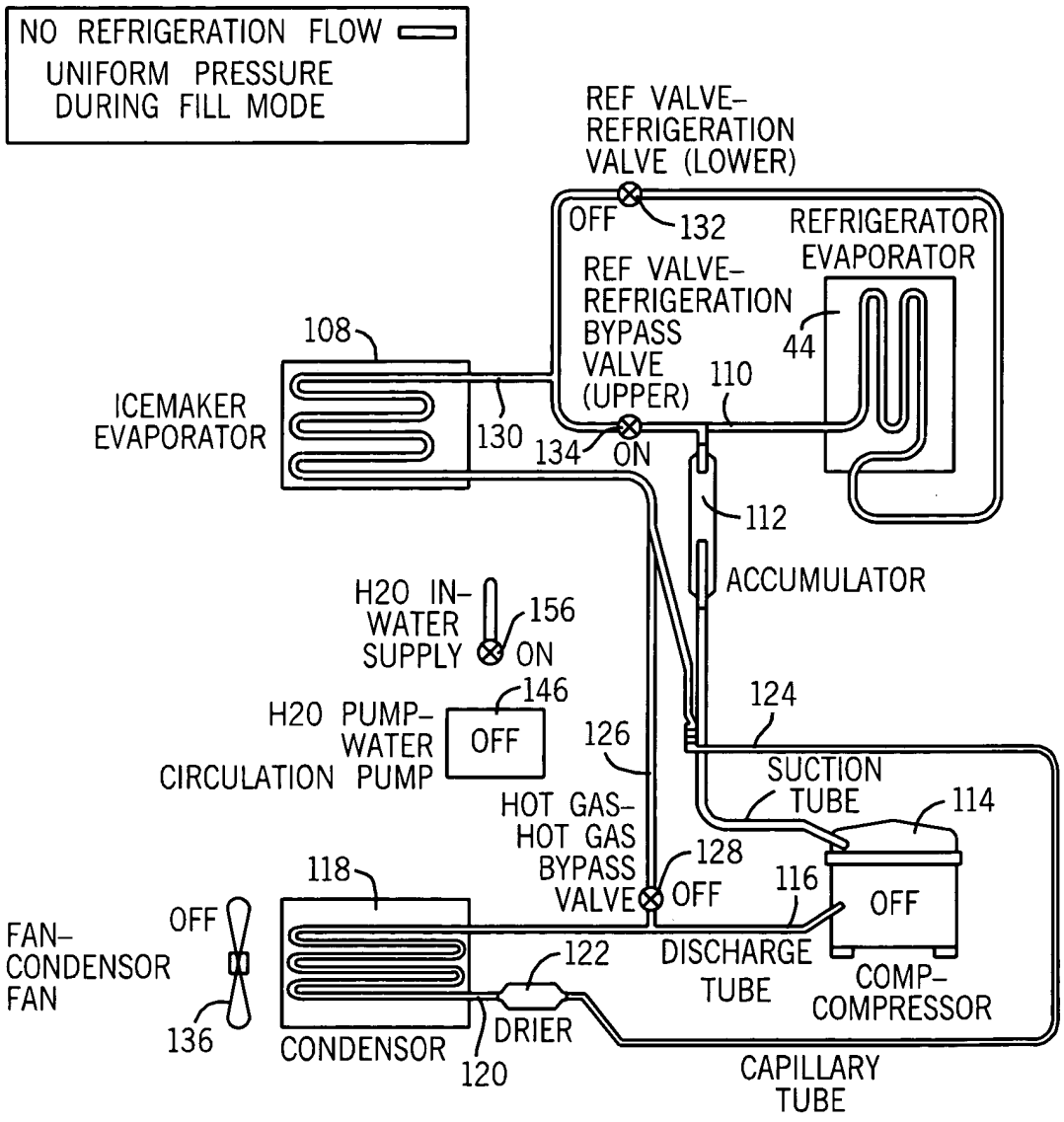
RELAY	COMP	H20 IN	REF VALVE*	FAN	H20 PUMP	HOT GAS
STATUS	ON	ON	ON	ON	OFF	OFF

*DOUBLE THROW RELAY: OFF: REF VALVE CLOSED, REF BY-PASS VALVE OPEN

NOTE: THE REFRIGERATOR WILL CONTINUE TO RUN UNTIL THE COMPLETION OF THE THREE MINUTE FILL CYCLE REGARDLESS OF THE REFRIGERATOR SENSOR

FIG. 13

MODE: WATER FILL– NO REFRIGERATION REQUIRED

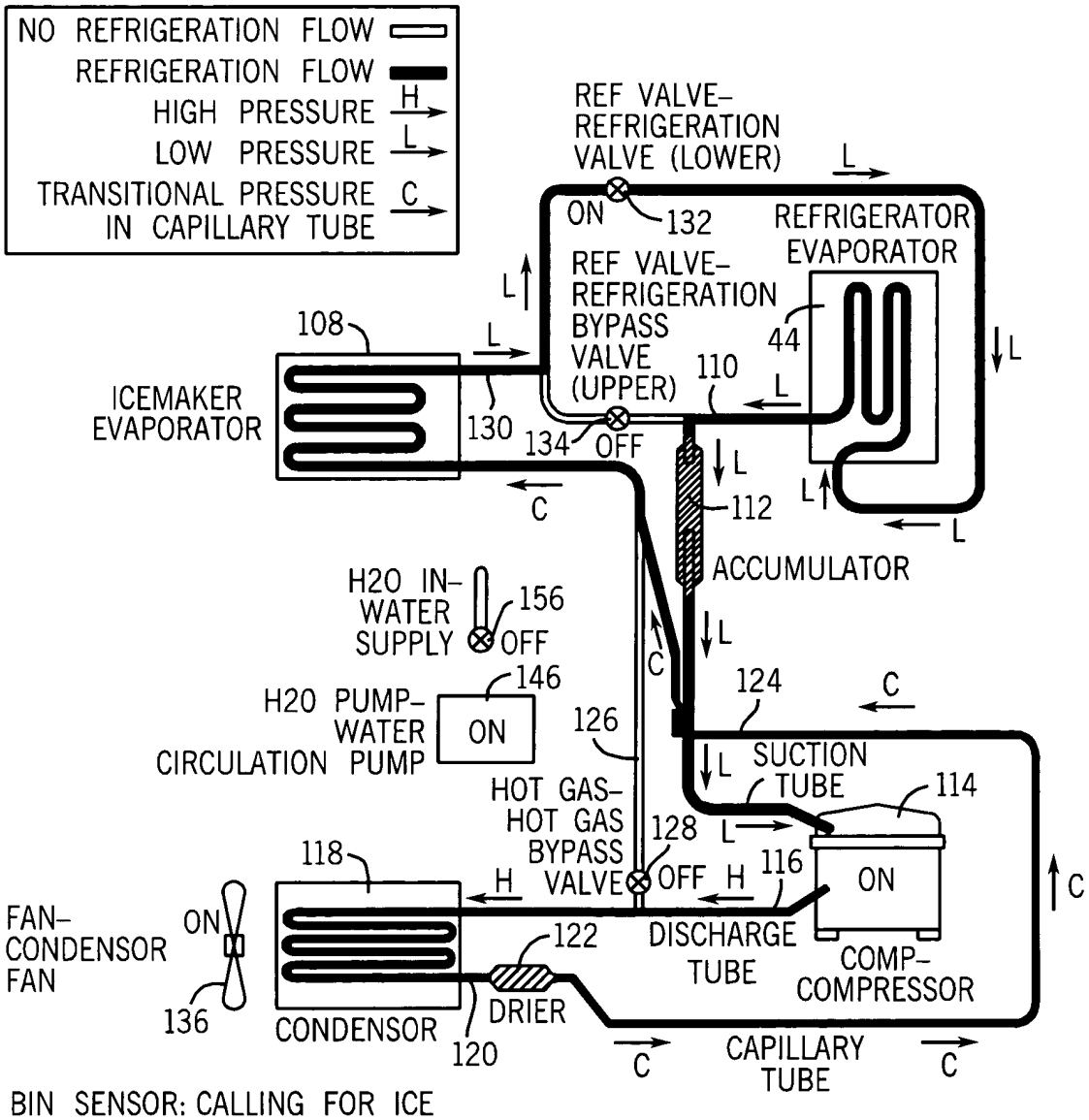


RELAY	COMP	H20 IN	REF VALVE*	FAN	H20 PUMP	HOT GAS
STATUS	OFF	ON	OFF	OFF	OFF	OFF

*DOUBLE THROW RELAY: OFF: REF VALVE CLOSED, REF BY–PASS VALVE OPEN

FIG. 14

MODE: ICE MAKING AND REFRIGERATION



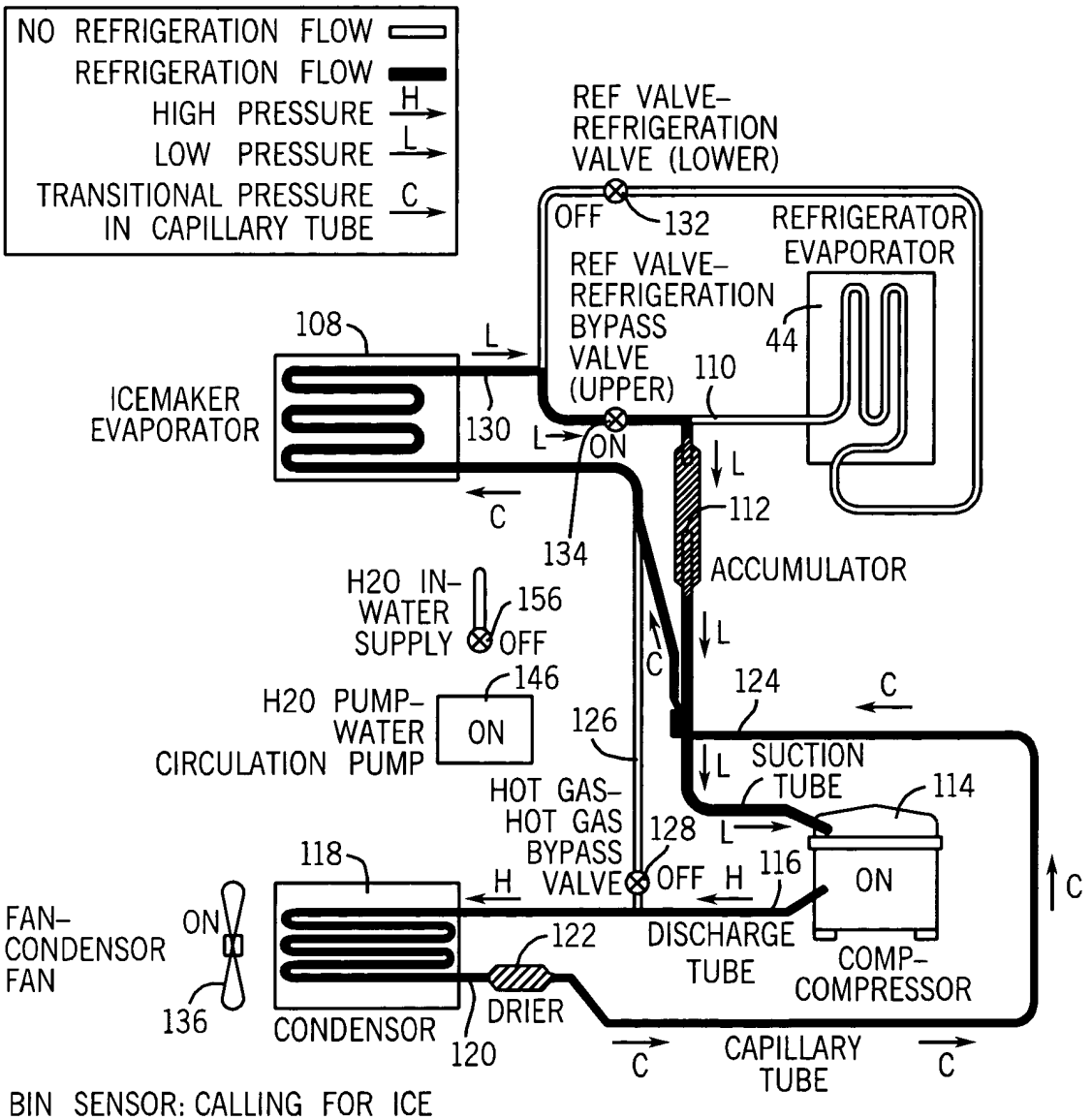
BIN SENSOR: CALLING FOR ICE
REFRIGERATOR SENSOR: CALLING FOR COOLING
LIQUID LINE SENSOR: DETERMINES LENGTH OF ICE CYCLE & HARVEST

RELAY	COMP	H20 IN	REF VALVE*	FAN	H20 PUMP	HOT GAS
STATUS	ON	OFF	ON	ON	ON	OFF

*DOUBLE THROW RELAY: ON: REF VALVE OPEN, REF BY-PASS VALVE CLOSED

FIG. 15

MODE: ICE MAKING AND NO REFRIGERATION



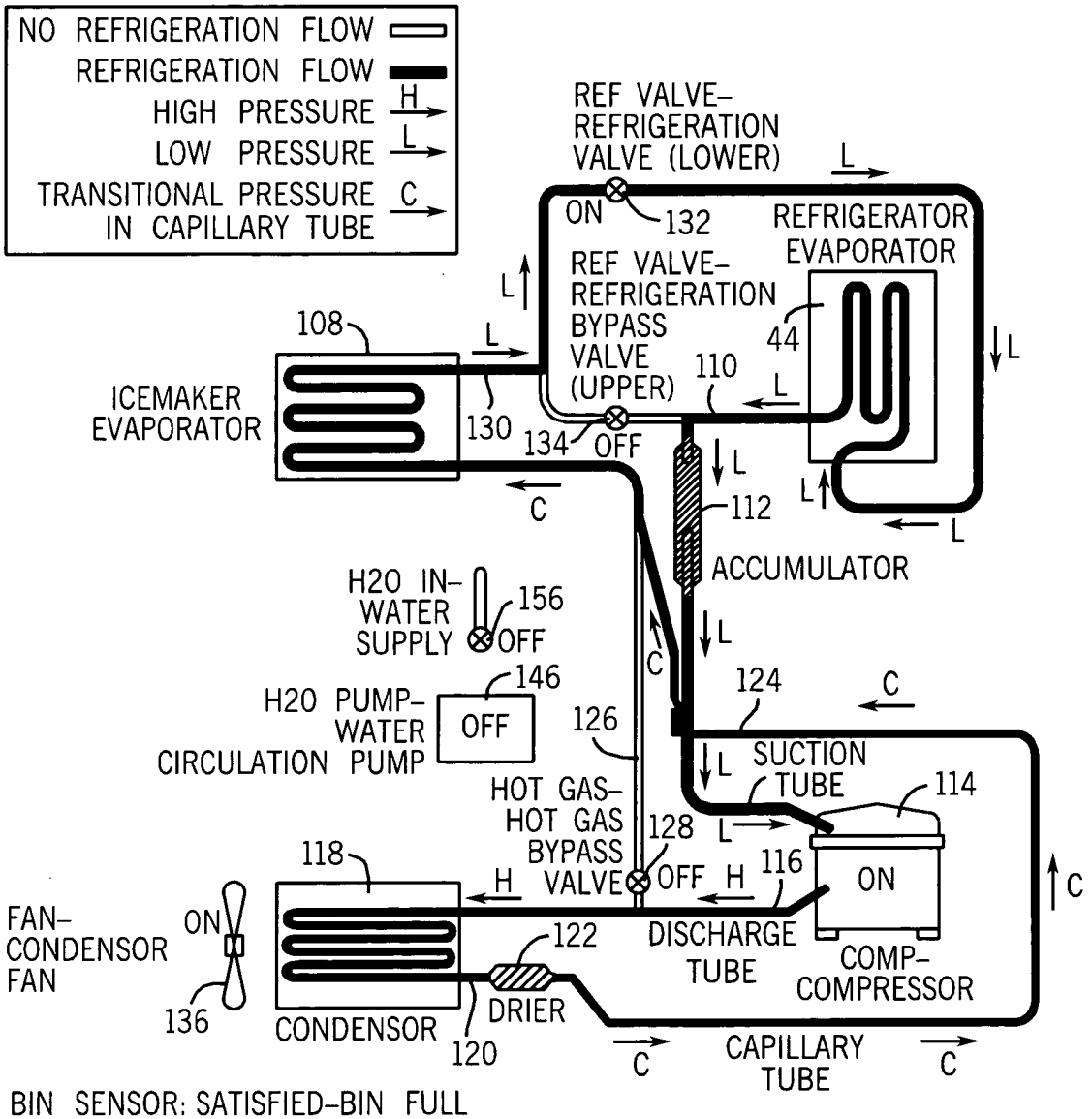
BIN SENSOR: CALLING FOR ICE
REFRIGERATOR SENSOR: SATISFIED (NO CALL FOR COOLING)
LIQUID LINE SENSOR: DETERMINES LENGTH OF ICE CYCLE & HARVEST

RELAY	COMP	H20 IN	REF VALVE*	FAN	H20 PUMP	HOT GAS
STATUS	ON	OFF	OFF	ON	ON	OFF

*DOUBLE THROW RELAY: OFF: REF VALVE CLOSED, REF BY-PASS VALVE OPEN

FIG. 16

MODE: REFRIGERATION AND NO ICE MAKING



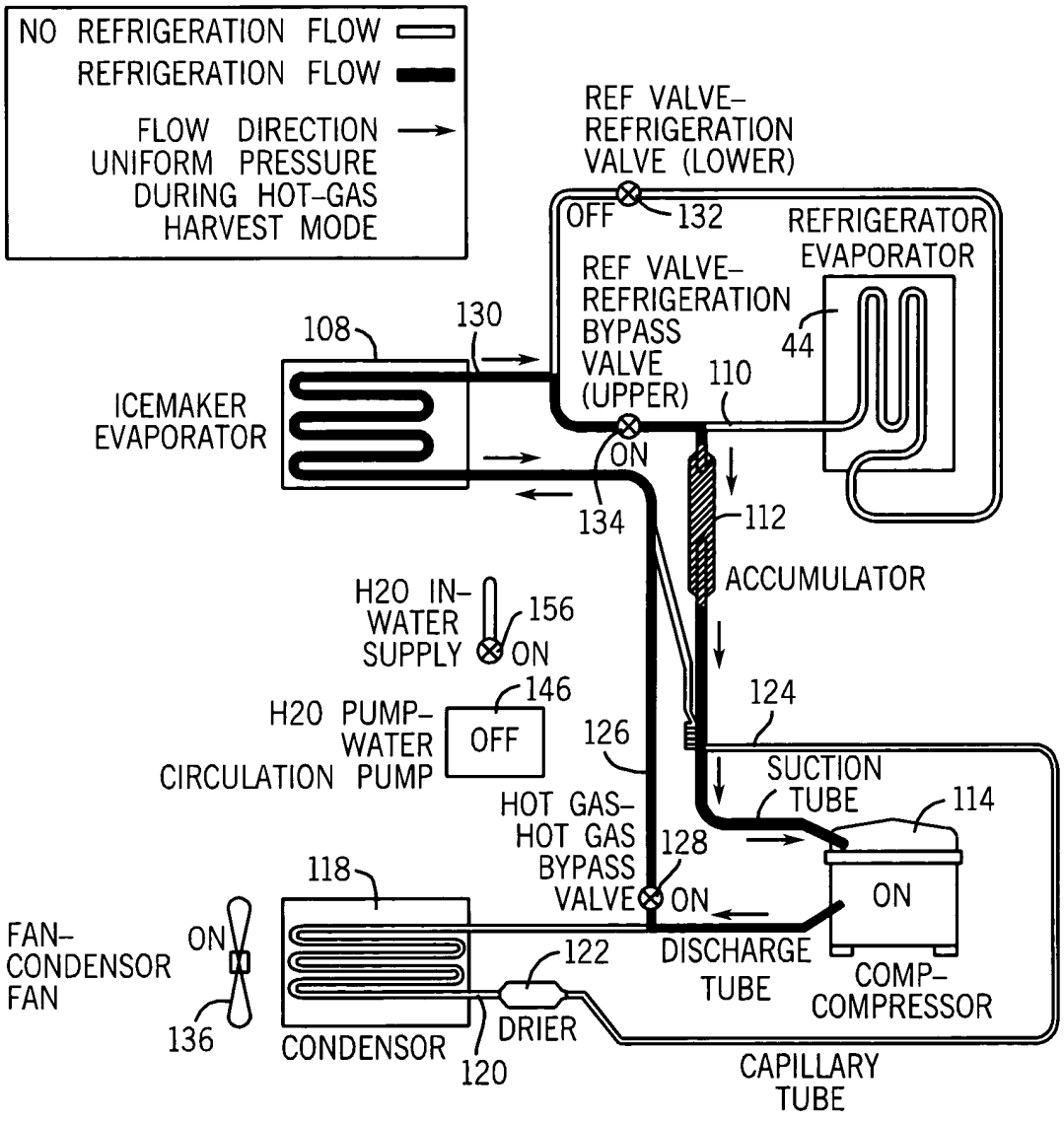
BIN SENSOR: SATISFIED–BIN FULL
REFRIGERATOR SENSOR: CALLING FOR COOLING
LIQUID LINE SENSOR: NOT APPLICABLE

RELAY	COMP	H20 IN	REF VALVE*	FAN	H20 PUMP	HOT GAS
STATUS	ON	OFF	ON	ON	OFF	OFF

*DOUBLE THROW RELAY: OFF: REF VALVE CLOSED, REF BY–PASS VALVE OPEN

FIG. 17

MODE: ICE HARVEST (NO REFRIGERATION POSSIBLE)



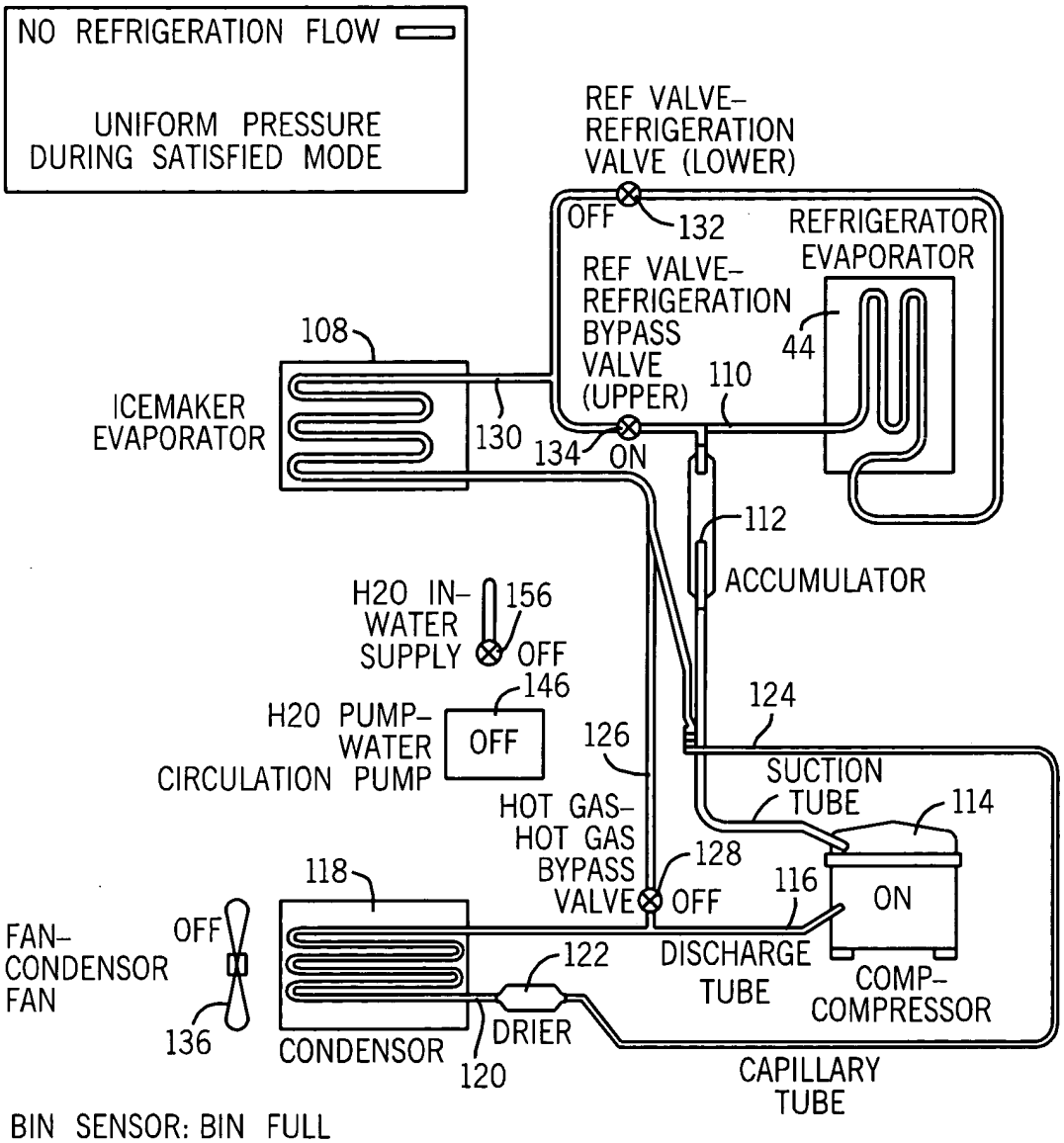
LIQUID LINE SENSOR: DETERMINES LENGTH OF ICE CYCLE & HARVEST

RELAY	COMP	H20 IN	REF VALVE*	FAN	H20 PUMP	HOT GAS
STATUS	ON	ON	OFF	OFF	OFF	ON

*DOUBLE THROW RELAY: OFF: REF VALVE CLOSED, REF BY-PASS VALVE OPEN

FIG. 18

MODE: ALL SATISFIED



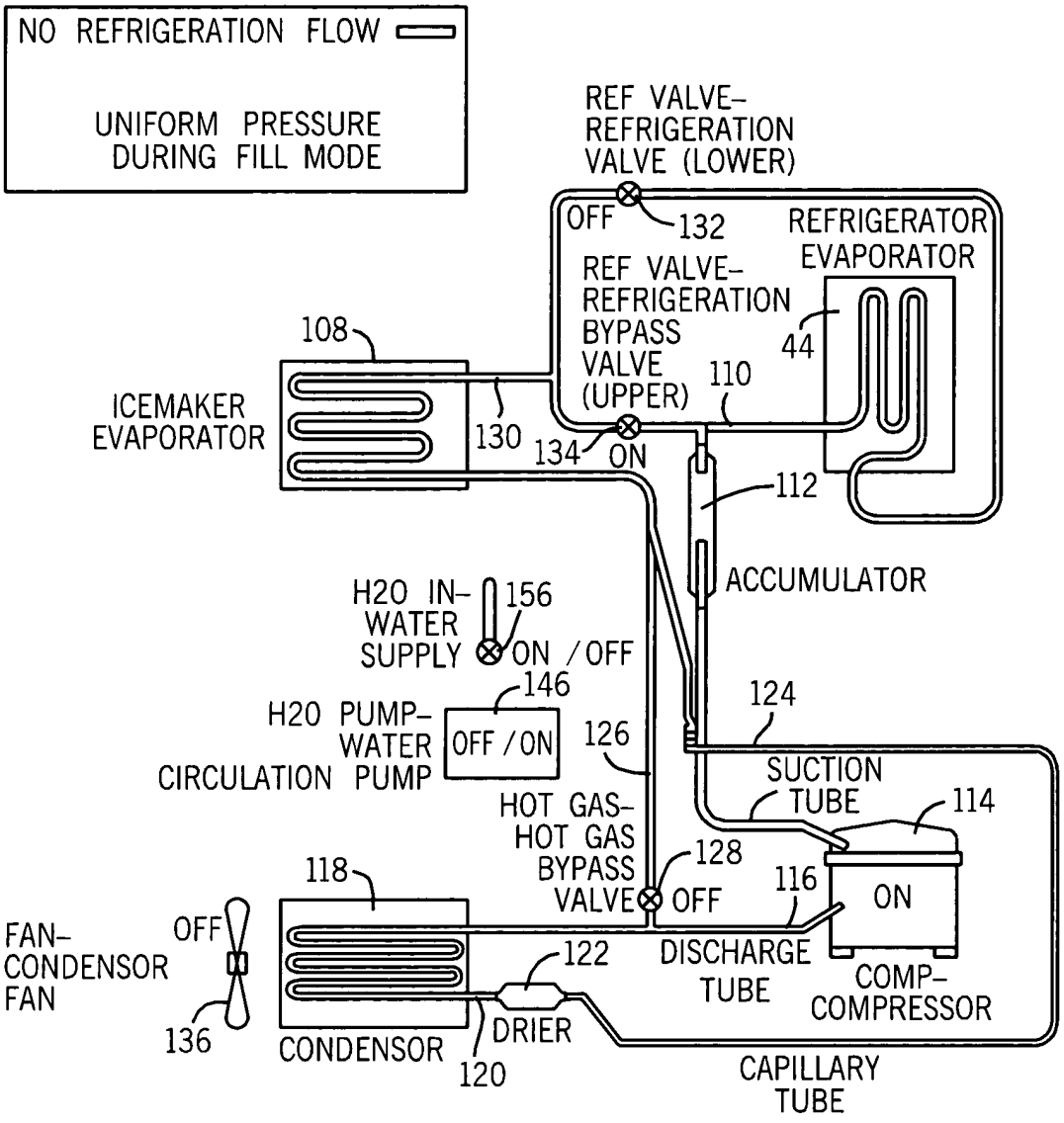
BIN SENSOR: BIN FULL
REFRIGERATOR SENSOR: SATISFIED (NO CALL FOR COOLING)
LIQUID LINE SENSOR: NOT APPLICABLE

RELAY	COMP	H20 IN	REF VALVE*	FAN	H20 PUMP	HOT GAS
STATUS	OFF	OFF	OFF	OFF	OFF	OFF

*DOUBLE THROW RELAY: OFF REF VALVE CLOSED, REF BY-PASS VALVE OPEN

FIG. 19

MODE: CLEANING (NO REFRIGERATION POSSIBLE)



RELAY	COMP	H20 IN	REF VALVE*	FAN	H20 PUMP	HOT GAS
STATUS	OFF	ON / OFF	OFF	OFF	OFF / ON	OFF

*DOUBLE THROW RELAY: OFF REF VALVE CLOSED, REF BY-PASS VALVE OPEN

FIG. 20

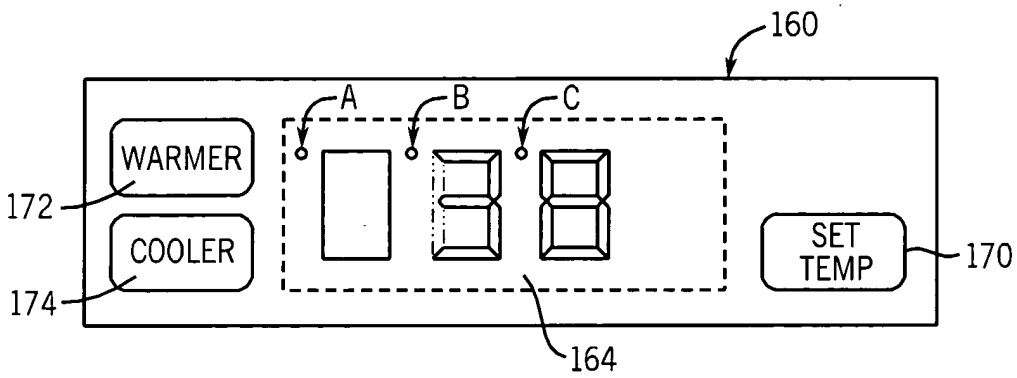


FIG. 21